IN THE CLAIMS

Please cancel claims 1-22, 24-26 and 40-63, without prejudice, and add new claims 64-91, as follows:

- 64. (New) A method for removing etching and resist material from a multi-level substrate, comprising the steps of:
 - (a) forming a photoresist layer on a substrate level comprising a metal;
- (b) exposing a portion of the photoresist layer, leaving a portion of the photoresist layer unexposed, and removing unreacted photoresist so that a resist pattern is formed;
 - (c) etching at least a portion of the substrate, using the resist pattern as a mask; and
- (d) contacting the etched substrate with a cleaning composition at a temperature of between about room temperature and 100°C, to remove the resist pattern and etching residue from the etched substrate,

wherein the cleaning composition comprises:

(a) from about 5% to 50% by weight of hydroxylamine or a derivative thereof having a general formula of:

$$N \longrightarrow O \longrightarrow R_3$$

wherein R₁, R₂, and R₃ are independently hydrogen; a hydroxyl group; a C₁-C₆ straight, branched or cyclo alkyl, alkenyl, or alkynyl group; an acyl group; a straight or branched alkoxy group, amidyl group, carboxyl group, alkoxyalkyl group, alkylamino group, alkylsulfonyl group, or sulfonic acid group; or a salt thereof;

- (b) from about 10% to 80% by weight of at least one organic solvent miscible with the hydroxylamine or the hydroxylamine derivative;
- (c) from about 5% to 30% by weight of an aromatic hydroxy-functional compound having a general formula of:

wherein n=1-4, m=2-5 and each R is independently hydrogen; a C₁-C₆ straight, branched or cyclo alkyl, alkenyl, or alkynyl group; an acyl group; a straight or branched alkoxy

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group, amidyl group, carboxyl group, alkoxyalkyl group, alkylamino group, alkylsulfonyl group, or sulfonic acid group; or a salt thereof; and

- (d) water.
- 65. (New) The method of claim 64, wherein the hydroxylamine or derivative thereof comprises hydroxylamine, which is added as a 50% aqueous solution.
- 66. (New) The method of claim 64, wherein the composition comprises more than one organic solvent.
 - 67. (New) The method of claim 66, wherein:
- (a) the hydroxylamine or derivative thereof comprises hydroxylamine or an alkyl or carboxyl substituted hydroxylamine derivative;
 - (b) the more than one organic solvent comprises:
 - (1) an alkanolamine selected from the group consisting of monoethanolamine, diethanolamine, triethanolamine, tert-butyldiethanolamine, isopropanolamine, 2-amino-1-propanol, 3-amino-1-propanol, isobutanolamine, 2-amino-2-ethoxy-propanol, and diglycolamine; and
 - (2) a non-amine solvent selected from the group consisting of dimethylsulfoxide, N-methyl-2-pyrrolidinone, N,N-dimethylpropanamide, N,N-dimethylformamide, ethylene glycol, ethylene glycol alkyl ether, diethylene glycol alkyl ether, triethylene glycol alkyl ether, propylene glycol, propylene glycol alkyl ether, dipropylene glycol alkyl ether, tripropylene glycol alkyl ether, and N-substituted pyrrolidone; and (c) the aromatic hydroxy-functional compound comprises a dihydroxybenzene.
- 68. (New) The method of claim 67, wherein the at least one organic solvent comprises (1) a monoamine and (2) dimethylsulfoxide.
- 69. (New) The method of claim 68, wherein the monoamine is at least one selected from the group consisting of monoethanolamine and diglycolamine.
- 70. (New) The method of claim 69, wherein the monoamine consists essentially of monoethanolamine.

- 71. (New) The method of claim 67, wherein the hydroxylamine or derivative thereof comprises hydroxylamine.
- 72. (New) The method of claim 70, wherein the hydroxylamine or derivative thereof comprises hydroxylamine.
- 73. (New) The method of claim 67, wherein the aromatic hydroxy-functional compound comprises at least one of 1,2-dihydroxy-4-t-butylbenzene and 1,2-dihydroxybenzene.
- 74. (New) The method of claim 70, wherein the aromatic hydroxy-functional compound comprises at least one of 1,2-dihydroxy-4-t-butylbenzene and 1,2-dihydroxybenzene.
- 75. (New) The method of claim 72, wherein the aromatic hydroxy-functional compound comprises at least one of 1,2-dihydroxy-4-t-butylbenzene and 1,2-dihydroxybenzene.
- 76. (New) The method of claim 64, wherein the cleaning composition comprises from 30% to 60% by weight of the at least one organic solvent miscible with the hydroxylamine or hydroxylamine derivative.
- 77. (New) The method of claim 64, wherein the contacting of the etched substrate with the cleaning composition is performed for about 2 to 60 minutes.
- 78. (New) The method of claim 77, wherein the contacting of the etched substrate with the cleaning composition is a two step process, the first step comprising contacting for about 30 minutes at a temperature of about 65°C, and the second step comprising contacting for about 10 minutes at a temperature from about 80-85°C.
- 79. (New) A method for removing etching and resist material from a multi-level substrate, comprising the steps of:
 - (a) forming a photoresist layer on a substrate level comprising a metal;
- (b) exposing a portion of the photoresist layer, leaving a portion of the photoresist layer unexposed, and removing unreacted photoresist so that a resist pattern is formed;
 - (c) etching at least a portion of the substrate, using the resist pattern as a mask; and

(d) contacting the etched substrate with a cleaning composition at a temperature of between about room temperature and 100°C, to remove the resist pattern and etching residue from the etched substrate,

wherein the cleaning composition consists essentially of:

- (1) about 17.5 parts of hydroxylamine;
- (2) about 27 parts of an alkanolamine solvent;
- (3) about 5 parts of 1,2-dihydroxybenzene;
- (4) about 33 parts of dimethylsulfoxide solvent; and
- (5) from about 17.5 to about 37.5 parts water.
- 80. (New) The method of claim 79, wherein the contacting of the etched substrate with the cleaning composition is performed for about 2 to 60 minutes.
- 81. (New) The method of claim 80, wherein the contacting of the etched substrate with the cleaning composition is a two step process, the first step comprising contacting for about 30 minutes at a temperature of about 65°C, and the second step comprising contacting for about 10 minutes at a temperature from about 80-85°C.
 - 82. (New) The method of claim 79, wherein the alkanolamine is a monoamine.
- 83. (New) The method of claim 82, wherein the monoamine is at least one selected from the group consisting of monoethanolamine and diglycolamine.
- 84. (New) The method of claim 83, wherein the monoamine consists essentially of monoethanolamine.
 - 85. (New) The method of claim 79, wherein the substrate layer comprises titanium.
 - 86. (New) The method of claim 79, wherein the substrate layer comprises aluminum.
 - 87. (New) The method of claim 79, wherein the substrate layer comprises tungsten.
- 88. (New) The method of claim 79, further comprising ashing the resist and etching residue after the step of etching.

- 89. (New) The method of claim 88, wherein the substrate layer comprises titanium.
- 90. (New) The method of claim 88, wherein the substrate layer comprises aluminum.
- 91. (New) The method of claim 88, wherein the substrate layer comprises tungsten.

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